

Oil Field Environmental Incident Summary

Incident: 20140616092013 **Date/Time of Notice:** 06/16/2014 09:20

Responsible Party: Denbury Resources

Well Operator: DENBURY ONSHORE, LLC

Well Name: HARR 18 WSW 15

Field Name: CEDAR HILLS

Well File #: 14265

Date Incident: 6/15/2014 **Time Incident:** 15:00

Facility ID Number:

County: BOWMAN

Twp: 131

Rng: 106

Sec: 1

Qtr: SE NE

Location Description: 150 yards nw of the 43-1NH16 location

Submitted By: Josh Cuppy

Received By:

Contact Person: Josh Cuppy
1000 Legacy Dr
Plano, TX 75024

General Land Use: Badlands Terrain

Affected Medium: Topsoil

Distance Nearest Occupied Building: 1 Mile

Distance Nearest Water Well: 1 Mile

Type of Incident: Pipeline Leak

Release Contained in Dike: No

Reported to NRC: No

	Spilled	Units	Recovered	Units	Followup	Units
Oil						
Brine					2000	barrels
Other	2000	Barrels				

Description of Other Released Contaminant:

Released fluid is source water from the Haar WSW. Lab analysis of source water show chloride levels at 632.

Inspected:

Written Report Received: 2/17/2016

Clean Up Concluded: 9/29/2014

Risk Evaluation:

None

Areal Extent:

Released fluid ran for approx. 1 mile down a dry drainage where it pooled.

Potential Environmental Impacts:

No surface water was impacted.

Action Taken or Planned:

Shut in the offending line and its associated injectors. Released fluid mixed with standing rain water and was absorbed into ground in most areas. Verbally notified Rick H. with info.

Wastes Disposal Location:

Agencies Involved: BLM

Updates

Date: 6/16/2014 **Status:** Inspection

Author: Espe, Brady

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

The weather was 76 °F, clear, with wind from the northwest 0-5 mph. The break occurred northwest of the injection well 43-1NH16. There is also another injection well next to 43-1NH16. The break is located just north of the lease road on the west side of a large flat drainage area, which appears to stay dry except for large runoff events. The pipe broke on a small side slope on the southwest side of drainage. The break caused a lot of erosion of soil just north of the side slope into the drainage. The erosion area went for about 200 feet. I walked the drainage area, following the flow of spilled source water. About three quarters of a mile north of the site, the impact drainage meet up with drainage from the east. At this point, there was a small depression in the drainage that was holding water; I took a sample of water from this area. I followed the drainage for another mile or so. The drainage had small areas holding water but was mostly dry. The drainage continued northwest until reaching a more defined drainage. I took a sample from this drainage about two or so miles northwest of the break. The sample was taken on the west side of another lease road to another injection well. I also took a conductivity reading of 1534 microsiemens. The drainage meets up with a larger drainage to the north, which flows into the Little Missouri River about a mile from this point. I took a water sample from the area of the break and recorded a conductivity reading of 5.32 microsiemens. I also took a soil sample from the piled-up soil eroded by the break. Further followup is required to check on cleanup progress.

Date: 6/16/2014 **Status:** Reviewed - Follow-up Required

Author: Stockdill, Scott

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

According to the incident summary, this spill impacted the surrounding area. More followup is necessary.

Date: 6/18/2014 **Status:** Inspection

Author: Espe, Brady

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

The weather was 60 °F, cloudy, with wind from the northwest 10 to 15 miles per hour. The area received rain last night. Nothing has been done as the company is waiting for the area to dry up. More followup is needed to check on cleanup progress.

Date: 6/25/2014 **Status:** Inspection

Author: Wax, Pete

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

On site 09:15, off site 11:20, overcast, wind 10-15 SE, 61 degrees. Met with Mark Beory and collected source water sample. Water: DRO, Group 190 + Br. Preserved and iced on location. Visited leak area. Took photographs. Area has been reshaped. Walked downgradient, and the plant life (where undisturbed by heavy equipment) appeared healthy. Informed Mr. Beory that soil samples will need to be collected and gave Scott Stockdill as the department contact for details about soil collection.

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

The weather was 90 °F, clear, with wind from the southeast 10-15 mph. I drove to the lease road downstream of the break and did not see any impacts to the drainage. The pipeline has been repaired, and the area over the pipeline has been repaired. The drainage the source water followed has green vegetation which appears to be growing. Could tell the area had high flows from recent rains. Numerous areas within the drainage have clay areas that naturally do not grow vegetation. No further followup needed at this time.